

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/726,211DATE: 11/09/96
TIME: 16:23:16

INPUT SET: S13733.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

(1) General Information:

(i) APPLICANT: Tormo, Mar
Tari, Ana M.

Lopez-Berestein, Gabriel

(ii) TITLE OF INVENTION: INHIBITION OF Bcl-2 PROTEIN EXPRESSION BY
LIPOSOMAL ANTISENSE OLIGODEOXYNUCLEOTIDES

(iii) NUMBER OF SEQUENCES: 7

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Arnold, White & Durkee

(B) STREET: P.O. Box 4433

(C) CITY: Houston

(D) STATE: Texas

(E) COUNTRY: United States of America

(F) ZIP: 77210

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US Unknown

(B) FILING DATE: Concurrently Herewith

(C) CLASSIFICATION: Unknown

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Wilson, Mark B.

(B) REGISTRATION NUMBER: 37,259

(C) REFERENCE/DOCKET NUMBER: UTXC:504

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (512) 418-3000

(B) TELEFAX: (512) 474-7577

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 18 base pairs

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/726,211DATE: 11/09/96
TIME: 16:23:19

INPUT SET: S13733.raw

47 (B) TYPE: nucleic acid
48 (C) STRANDEDNESS: single
49 (D) TOPOLOGY: linear
50
51 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
52
53 CAGCGTGCGC CATCCTTC 18
54
55
56 (2) INFORMATION FOR SEQ ID NO:2:
57
58 (i) SEQUENCE CHARACTERISTICS:
59 (A) LENGTH: 20 base pairs
60 (B) TYPE: nucleic acid
61 (C) STRANDEDNESS: single
62 (D) TOPOLOGY: linear
63
64
65 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
66
67 ACGGTCCGCC ACTCCTTCCC 20
68
69
70 (2) INFORMATION FOR SEQ ID NO:3:
71
72 (i) SEQUENCE CHARACTERISTICS:
73 (A) LENGTH: 16 base pairs
74 (B) TYPE: nucleic acid
75 (C) STRANDEDNESS: single
76 (D) TOPOLOGY: linear
77
78 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
79
80 CTGAAGGGCT TCTTCC 16
81
82
83 (2) INFORMATION FOR SEQ ID NO:4:
84
85 (i) SEQUENCE CHARACTERISTICS:
86 (A) LENGTH: 5086 base pairs
87 (B) TYPE: nucleic acid
88 (C) STRANDEDNESS: single
89 (D) TOPOLOGY: linear
90
91 (ix) FEATURE:
92 (A) NAME/KEY: CDS
93 (B) LOCATION: 1459..2175
94
95 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
96
97 GCGCCCCGCC CTCCGCGCCG CCTGCCCCGCC CGCCCGCCGC GCTCCCGCCC GCCGCTCTCC 60
98
99 GTGGCCCCGC CGCGCTGCCG CCGCCGCCGC TGCCAGCGAA GGTGCCGGGG CTCCGGGGCC 120

INPUT SET: S13733.raw

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RAW SEQUENCE LISTING PATENT APPLICATION US/08/726,211

 DATE: 11/09/96
 TIME: 16:23:26

INPUT SET: S13733.raw

153	TAC GAG TGG GAT GCG GGA GAT GTG GGC GCC GCG CCC CCG GGG GCC GCC	1587
154	Tyr Glu Trp Asp Ala Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala	
155	30 35 40	
156		
157	CCC GCA CCG GGC ATC TTC TCC TCC CAG CCC GGG CAC ACG CCC CAT CCA	1635
158	Pro Ala Pro Gly Ile Phe Ser Ser Gln Pro Gly His Thr Pro His Pro	
159	45 50 55	
160		
161	GCC GCA TCC CGC GAC CCG GTC GCC AGG ACC TCG CCG CTG CAG ACC CCG	1683
162	Ala Ala Ser Arg Asp Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro	
163	60 65 70 75	
164		
165	GCT GCC CCC GGC GCC GCC GCG GGG CCT GCG CTC AGC CCG GTG CCA CCT	1731
166	Ala Ala Pro Gly Ala Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro	
167	80 85 90	
168		
169	GTG GTC CAC CTG GCC CTC CGC CAA GCC GGC GAC GAC TTC TCC CGC CGC	1779
170	Val Val His Leu Ala Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg	
171	95 100 105	
172		
173	TAC CGC GGC GAC TTC GCC GAG ATG TCC AGC CAG CTG CAC CTG ACG CCC	1827
174	Tyr Arg Gly Asp Phe Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro	
175	110 115 120	
176		
177	TTC ACC GCG CGG GGA CGC TTT GCC ACG GTG GTG GAG GAG CTC TTC AGG	1875
178	Phe Thr Ala Arg Gly Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg	
179	125 130 135	
180		
181	GAC GGG GTG AAC TGG GGG AGG ATT GTG GCC TTC TTT GAG TTC GGT GGG	1923
182	Asp Gly Val Asn Trp Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly	
183	140 145 150 155	
184		
185	GTC ATG TGT GTG GAG AGC GTC AAC CGG GAG ATG TCG CCC CTG GTG GAC	1971
186	Val Met Cys Val Glu Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp	
187	160 165 170	
188		
189	AAC ATC GCC CTG TGG ATG ACT GAG TAC CTG AAC CGG CAC CTG CAC ACC	2019
190	Asn Ile Ala Leu Trp Met Thr Glu Tyr Leu Asn Arg His Leu His Thr	
191	175 180 185	
192		
193	TGG ATC CAG GAT AAC GGA GGC TGG GAT GCC TTT GTG GAA CTG TAC GGC	2067
194	Trp Ile Gln Asp Asn Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly	
195	190 195 200	
196		
197	CCC AGC ATG CGG CCT CTG TTT GAT TTC TCC TGG CTG TCT CTG AAG ACT	2115
198	Pro Ser Met Arg Pro Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr	
199	205 210 215	
200		
201	CTG CTC AGT TTG GCC CTG GTG GGA GCT TGC ATC ACC CTG GGT GCC TAT	2163
202	Leu Leu Ser Leu Ala Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr	
203	220 225 230 235	
204		
205	CTG AGC CAC AAG TGAAGTCAAC ATGCCTGCCC CAAACAAATA TGCAAAAGGT	2215

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/726,211DATE: 11/09/96
TIME: 16:23:29

INPUT SET: S13733.raw

206 Leu Ser His Lys
207
208
209 TCACTAAAGC AGTAGAAATA ATATGCATTG TCAGTGATGT ACCATGAAAC AAAGCTGCAG 2275
210
211 GCTGTTTAAG AAAAAATAAC ACACATATAA ACATCACACA CACAGACAGA CACACACACA 2335
212
213 CACAACAATT AACAGTCTTC AGGCAAAACG TCGAATCAGC TATTTACTGC CAAAGGGAAA 2395
214
215 TATCATTTAT TTTTACATT ATTAAGAAAA AAGATTTATT TATTTAAGAC AGTCCCATCA 2455
216
217 AAACCTCCGTC TTTGGAAATC CGACCACTAA TTGCCAAACA CCGCTTCGTG TGGCTCCACC 2515
218
219 TGGATGTTCT GTGCCTGTAA ACATAGATTC GCTTTCCATG TTGTTGGCCG GATCACCATC 2575
220
221 TGAAGAGCAG ACGGATGGAA AAAGGACCTG ATCATTTGGGG AAGCTGGCTT TCTGGCTGCT 2635
222
223 GGAGGCTGGG GAGAAGGTGT TCATTCACTT GCATTTCTTT GCCCTGGGGG CGTGATATTA 2695
224
225 ACAGAGGGAG GGTTCCTCGTG GGGGGAAGTC CATGCCTCCC TGGCCTGAAG AAGAGACTCT 2755
226
227 TTGCATATGA CTCACATGAT GCATACCTGG TGGGAGGAAA AGAGTTGGGA ACTTCAGATG 2815
228
229 GACCTAGTAC CCACTGAGAT TTCCACGCCG AAGGACAGCG ATGGGAAAAA TGCCCTTAAA 2875
230
231 TCATAGGAAA GTATTTTTTT AAGCTACCAA TTGTGCCGAG AAAAGCATTT TAGCAATTTA 2935
232
233 TACAATATCA TCCAGTACCT TAAACCCTGA TTGTGTATAT TCATATATTT TGGATACGCA 2995
234
235 CCCCCCAACT CCCAATACTG GCTCTGTCTG AGTAAGAAAC AGAATCCTCT GGAACCTGAG 3055
236
237 GAAGTGAACA TTTCGGTGAC TTCCGATCAG GAAGGCTAGA GTTACCCAGA GCATCAGGCC 3115
238
239 GCCACAAGTG CCTGCTTTTA GGAGACCGAA GTCCGCAGAA CCTACCTGTG TCCCAGCTTG 3175
240
241 GAGGCCTGGT CCTGGAAGTG AGCCGGGCCC TCACTGGCCT CCTCCAGGGA TGATCAACAG 3235
242
243 GGTAGTGTGG TCTCCGAATG TCTGGAAGCT GATGGATGGA GCTCAGAATT CCACTGTCAA 3295
244
245 GAAAGAGCAG TAGAGGGGTG TGGCTGGGCC TGTCACCCTG GGGCCCTCCA GGTAGGCCCC 3355
246
247 TTTTCACGTG GAGCATAGGA GCCACGACCC TTCTTAAGAC ATGTATCACT GTAGAGGGAA 3415
248
249 GGAACAGAGG CCCTGGGCCT TCCTATCAGA AGGACATGGT GAAGGCTGGG AACGTGAGGA 3475
250
251 GAGGCAATGG CCACGGCCCA TTTTGGCTGT AGCACATGGC ACGTTGGCTG TGTGGCCTTG 3535
252
253 GCCACCTGTG AGTTTAAAGC AAGGCTTTAA ATGACTTTGG AGAGGGTCAC AAATCCTAAA 3595
254
255 AGAAGCATTG AAGTGAGGTG TCATGGATTA ATTGACCCCT GTCTATGGAA TTACATGTAA 3655
256
257 AACATTATCT TGTCACGTGA GTTTGGTTTT ATTTGAAAAC CTGACAAAAA AAAAGTTCCA 3715
258